AN $R = \dfrac{100 \times 8,55}{9} = 95\Omega$

$r = 100 - R = 5\Omega$

2- a $t \in [0, 20ms]$

$i = at$ avec $a = \dfrac{20.10^{-3}}{20.10^{-3}} = 1.$

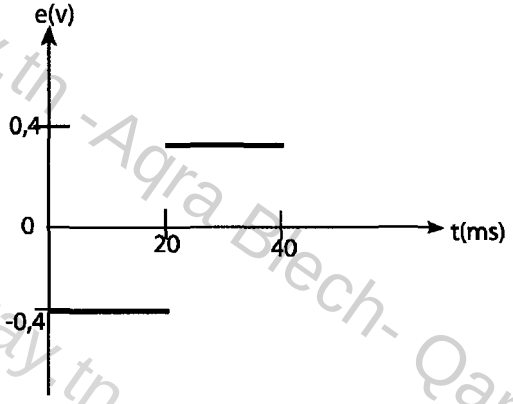
D'où $i = t$

$u_b = ri + L\dfrac{di}{dt} = rt + L$

$L = u_b - rt$; a t= 0 u_b=0,4 d'où L=0,4H

b- $e = -L\dfrac{di}{dt}$ = - L =0,4 v pour $t \in [0; 20ms]$

$e = -L\dfrac{di}{dt} = L = 0,4$v pour $t \in [20ms; 40ms]$

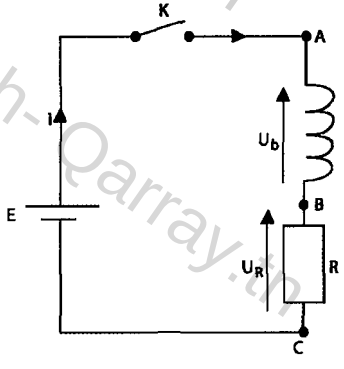


Qarray.tn -Aqra Blech- Qarray.tn

5

1) D'après la loi des mailles :

$u_b + u_R - E = 0$

$L\dfrac{di}{dt} + ri + Ri = E$

$L\dfrac{di}{dt} + i(R+r) = E$